

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61L9/014 B01D53/84

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F24F B01D A61L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SU 1 287 923 A1 (VNII BIOSINTEZA BELKOVYKH VESHCHESTV; FRUNZENSKIY POLT INSTITUT) 7 February 1987 (1987-02-07) abstract	1,2,5,8, 9
X	EP 0 147 721 A (DECHEMA DEUTSCHE GESELLSCHAFT FUR CHEMISCHES APPARATEWESEN E.V) 10 July 1985 (1985-07-10) abstract page 1, lines 6-15 page 5, line 1 - page 6, line 11 page 8, lines 12-21 claims; examples ----- -/--	9-17

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

22 June 2005

Date of mailing of the international search report

30/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Nissen, V

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 472 181 A (HERRLANDER ET AL)	9
	18 September 1984 (1984-09-18)	
A	figures 4a,4b	
	the whole document	1-8,
	-----	10-17
X	DE 22 37 929 A1 (SCHUMACHER'SCHE FABRIK,	9-17
	7120 BIETIGHEIM; SCHUMACHER'SCHE FABRIK	
	GMBH &) 14 February 1974 (1974-02-14)	
	page 9	
A	-----	
	US 6 403 366 B1 (KIM BYUNG JOON)	1-17
	11 June 2002 (2002-06-11)	
	column 1, lines 1-60; figures	

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
SU 1287923	A1	07-02-1987	NONE
EP 0147721	A	10-07-1985	DE 3345944 A1 04-07-1985 AT 43074 T 15-06-1989 EP 0147721 A2 10-07-1985 JP 60175523 A 09-09-1985
US 4472181	A	18-09-1984	SE 443930 B 17-03-1986 AT 22275 T 15-10-1986 AU 554774 B2 04-09-1986 AU 8348782 A 11-11-1982 CA 1175169 A1 25-09-1984 DE 3273287 D1 23-10-1986 EP 0064960 A1 17-11-1982 JP 1756840 C 23-04-1993 JP 4046608 B 30-07-1992 JP 57202283 A 11-12-1982 SE 8102901 A 08-12-1982
DE 2237929	A1	14-02-1974	NONE
US 6403366	B1	11-06-2002	NONE